

molten metal bath causes the cored wire to explode in an area very close to the surface of the bath.

Other additives vaporize very quickly and close to the surface. This produces a strong surface reactivity, which results in an oxidation and/or reinitriding of the bath, splashes of the liquid metal that damage the material, and heavy smoke emanation. Therefore, this introduction operation is much less efficient in the presence of these additives, and the resulting safety conditions are not adapted for industrial utilization.

In an attempt to eliminate this problem, it is known to introduce the cored wire through a tube made of refractory material immersed in the bath. The use of this tube is very difficult and very costly.

The object of the invention is to eliminate the aforementioned drawbacks.

One aspect of the invention is to cover this metallic sheath with a wrapping which, being combustible without leaving any harmful residues, momentarily retards the propagation of heat to the core of the cored wire. This combustible wrapping is wound in a helix around the metallic sheath. Unfortunately, the paper wrapping is sometimes observed to deteriorate during handling, i.e., when the wire is wound around the reel or when the wire placed on the reel is unwound in order to be introduced into the bath.

SUMMARY OF THE INVENTION

The subject of the invention is a cored wire comprising a metallic sheath containing an additive and covered by a wrapping 7 which, being combustible without leaving any harmful residues, momentarily retards the propagation of heat to the core of the cored wire.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood with the help of the following description given as a non-limiting example, in reference to the attached drawing, which schematically represents:

- Fig. 1: a cross-section of a cored wire according to the invention,
- Fig. 2: a step in the preparation of the cored wire,
- Fig. 3: an installation using a cored wire,
- Fig. 4: a cross-section of a variant of a cored wire.